#### Example message generated by User A1's local mail program

```
Date: Mon, 27 Nov 00 10:18:52

From: "Alan Smith" <a1@abc.com> ~ 142

To: x1@xyz.com, a2 (43)

Subject: Test Message ~ 144

This message is a test. The end.

Figure 1B (Prior Art)
```

## Example message as modified by local computing device 100 Sendmail program

From al@abc.com Mon Nov 27 10:19:23 2000 145 Message-Id: <9631121611.AA02124@abc.com> 146

Date: Mon, 27 Nov 00 10:18:52 From: "Alan Smith" <a1@abc.com>

To: x1@xyz.com, a2 Subject: Test Message

To anthony and a second and a s

This message is a test. The end.

#### Figure 1C (Prior Art)

#### Example message as modified by remote computing device 130 Sendmail program

From a1@abc.com Mon Nov 27 10:19:23 2000

Received: from abc.com [216.122.95.01] by xyz.com (8.8.4/8.8.4) with ESMTP id BF02C24; Mon, 27 Nov 2000 10:21:46

Message-Id: <9631121611.AA02124@abc.com>

Date: Mon, 27 Nov 00 10:18:52 From: "Alan Smith" <a1@abc.com>

To: x1@xyz.com, a2 Subject: Test Message

This message is a test. The end.

Figure 1D (Prior Art)

Example SMTP exchange as virtual computing device 200 Sendmail connects to computing device 130 Sendmail		771 xyz.com closing confection
Example SMTP exchange as computing device 100 Sendmail connects to computing device 130 Sendmail	220-xyz.com Sendmail 8.6.12/8.5 ready at Mon, 27 Nov 2000 10.22.23 –0800 220 ESMTP spoken here  >>> EHLO abc.com 250-xyz.com Hello abc.com, pleased to meet you 250-EXPN 250-EXPN 250-SIZE 250 HELP >>> MAIL From: <a1@abc.com> 250 <a>abc.com&gt; 250 <a>abc.com&gt; 250 <a>abc.com&gt; 250 <a>abc.com</a> 354 Enter mail, end with "" on a line by itself \$\frac{1}{8}\$ from message illustrated in Figure IC is transmitted} \$&gt;&gt;&gt; 250 GAA20115 Message accepted for delivery x1@xyz.com Sent (GAA20115 Message accepted for delivery) Closing connection to xyz.com &gt;&gt;&gt;&gt; QUIT</a></a></a></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com></a1@abc.com>	221 xyz com closing connection

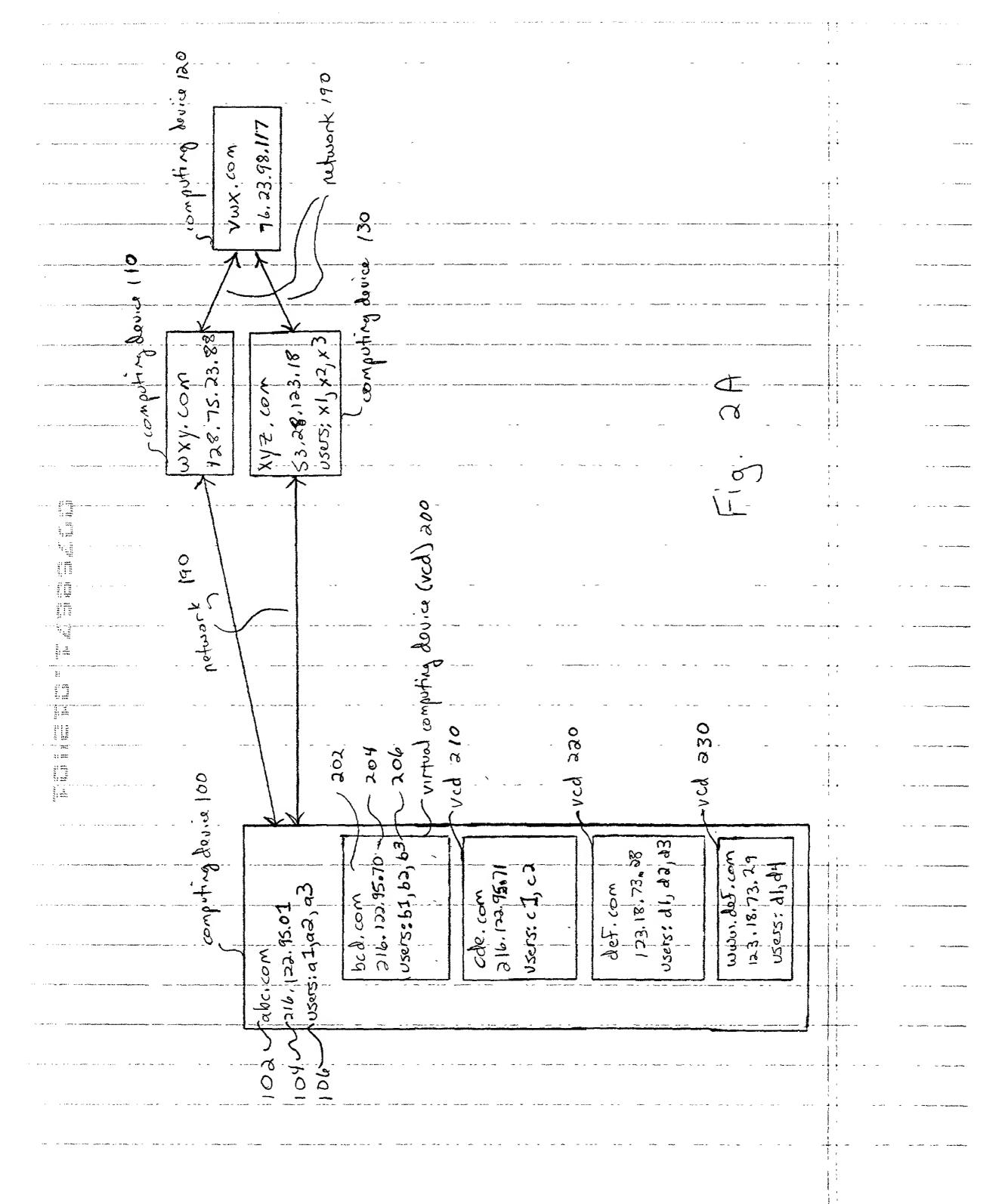
# Error file

(Prior Art)

Figure 1E

Host abc.com claimed to be bcd.com

Figure 2E



## Example message generated by User B1's local mail program

Date: Mon, 27 Nov 00 10:18:52

From: "Bob Smith" <b1@bcd.com> > 242

x1@xyz.com, b2 To: Subject: Test Message 2

This message is a test. The end.

## Figure 2B

## Example message as modified by virtual computing device 200 Sendmail program

~245 From b1@bcd.com Mon Nov 27 10:19:23 2000

Message-Id: <3431121623.4B0213D@bcd.com> ヘスソレ

Date: Mon, 27 Nov 00 10:18:52 From: "Bob Smith" <b1@bcd.com>

x1@xyz.com, b2 To: Subject: Test Message 2

This message is a test. The end.

## Figure 2C

## Example message as modified by remote computing device 130 Sendmail program

From b1@bcd.com Mon Nov 27 10:19:23 2000

247 Received: from abc.com [216.122.95.01] by xyz.com (8.8.4/8.8.4) with ESMTP id CD0A224;

Mon, 27 Nov 2000 10:21:46

Message-Id: <3431121623.4B0213D@bcd.com>

Date: Mon, 27 Nov 00 10:18:52 From: "Bob Smith" <b1@bcd.com>

x1@xyz.com., b2 To: Subject: Test Message 2

This message is a test. The end.

## Figure 2D

# Example message as modified by remote computing device 130 Sendmail program when sent by Virtual Domain Sendmail program on computing device 100

From b1@bcd.com Mon Nov 27 10:19:23 2000

347 Received: from bcd.com [216.122.95.70] by xyz.com (8.8.4/8.8.4) with ESMTP id CD0A224;

Mon, 27 Nov 2000 10:21:46

Message-Id: <3431121623.4B0213D@bcd.com>

Date: Mon, 27 Nov 00 10:18:52 From: "Bob Smith" <b1@bcd.com>

To: x1@xyz.com., b2 Subject: Test Message 2

This message is a test. The end.

#### Figure 3A

Example SMTP exchange as Virtual Domain Sendmail program on computing device 100 connects to computing device 130

220-xyz.com Sendmail 8.6.12/8.5 ready at Mon, 27 Nov 2000 10:22:23 -0800

220 ESMTP spoken here

EHLO bcd.com

Hello bcd.com, pleased to meet you

250-EXPN

**250-SIZE** 

**250 HELP** 

>>> MAIL From: <b1@bcd.com>

250 <b1@bcd.com>... Sender ok

>>> RCPT To:<x1@xyz.com>

250 <x1@xyz.com>... Recipient ok

>>> DATA

354 Enter mail, end with "." on a line by itself

{The message illustrated in Figure 2C is transmitted}

>>>

250 GAA20115 Message accepted for delivery

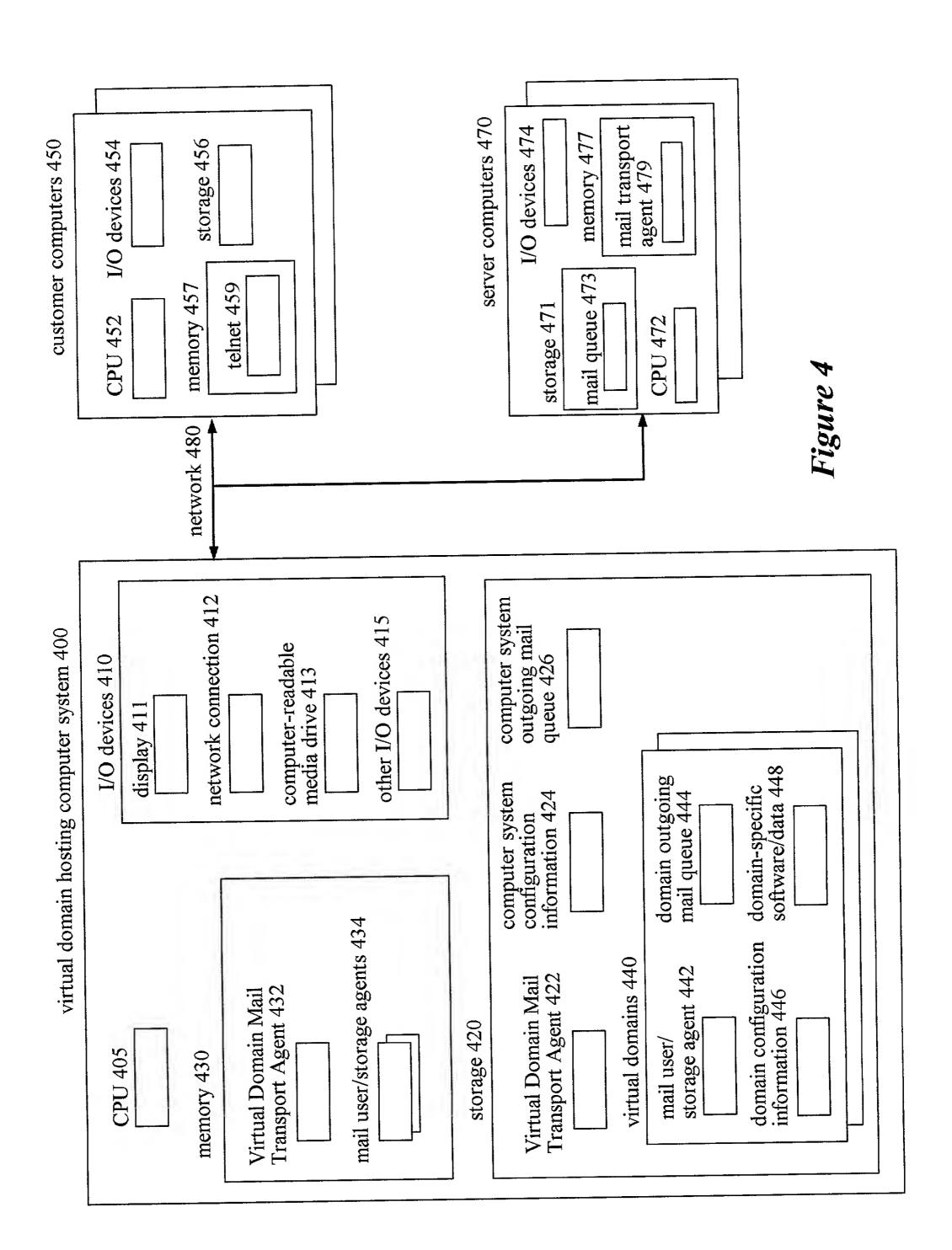
x1@xyz.com... Sent (GAA20115 Message accepted for delivery)

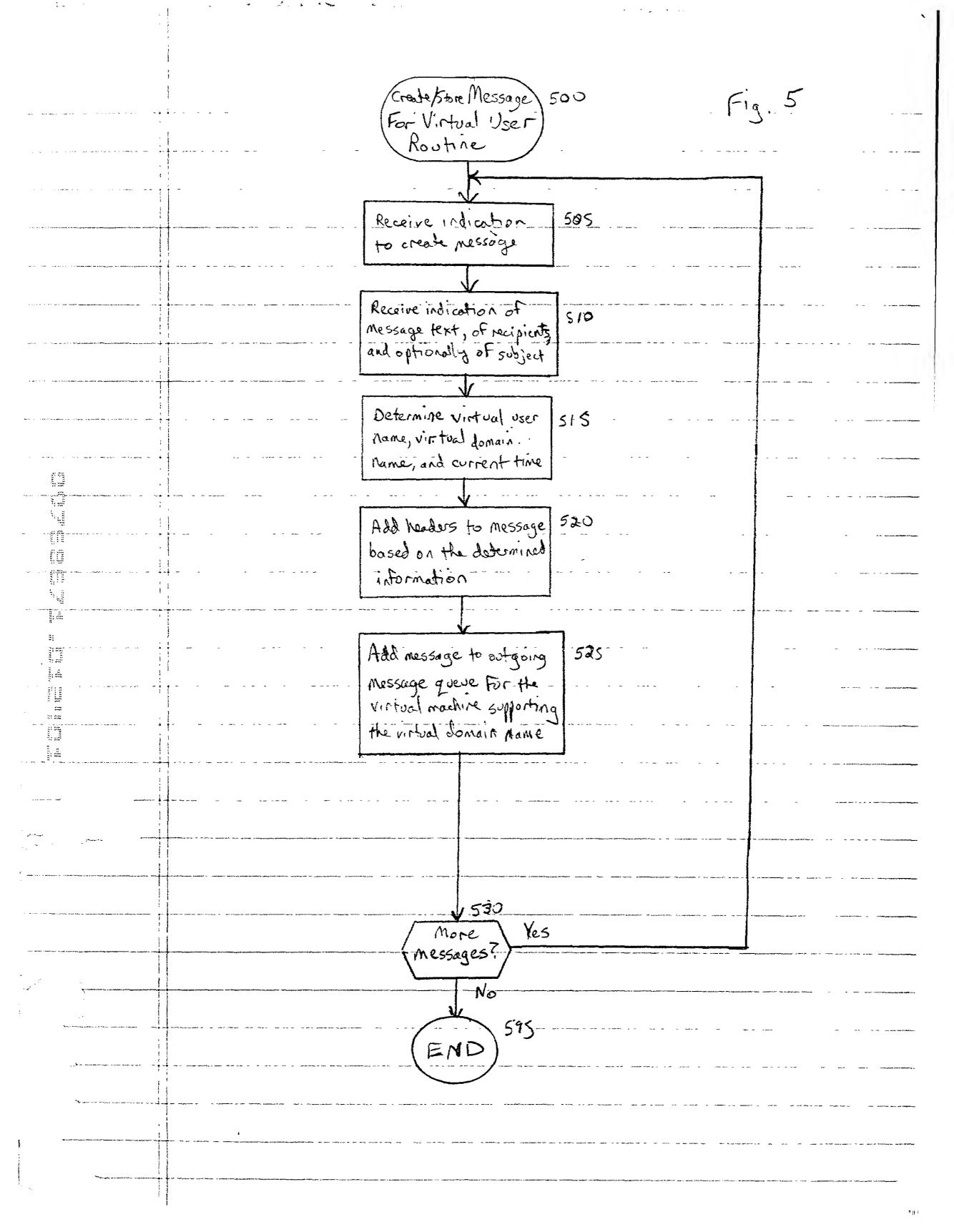
Closing connection to xyz.com

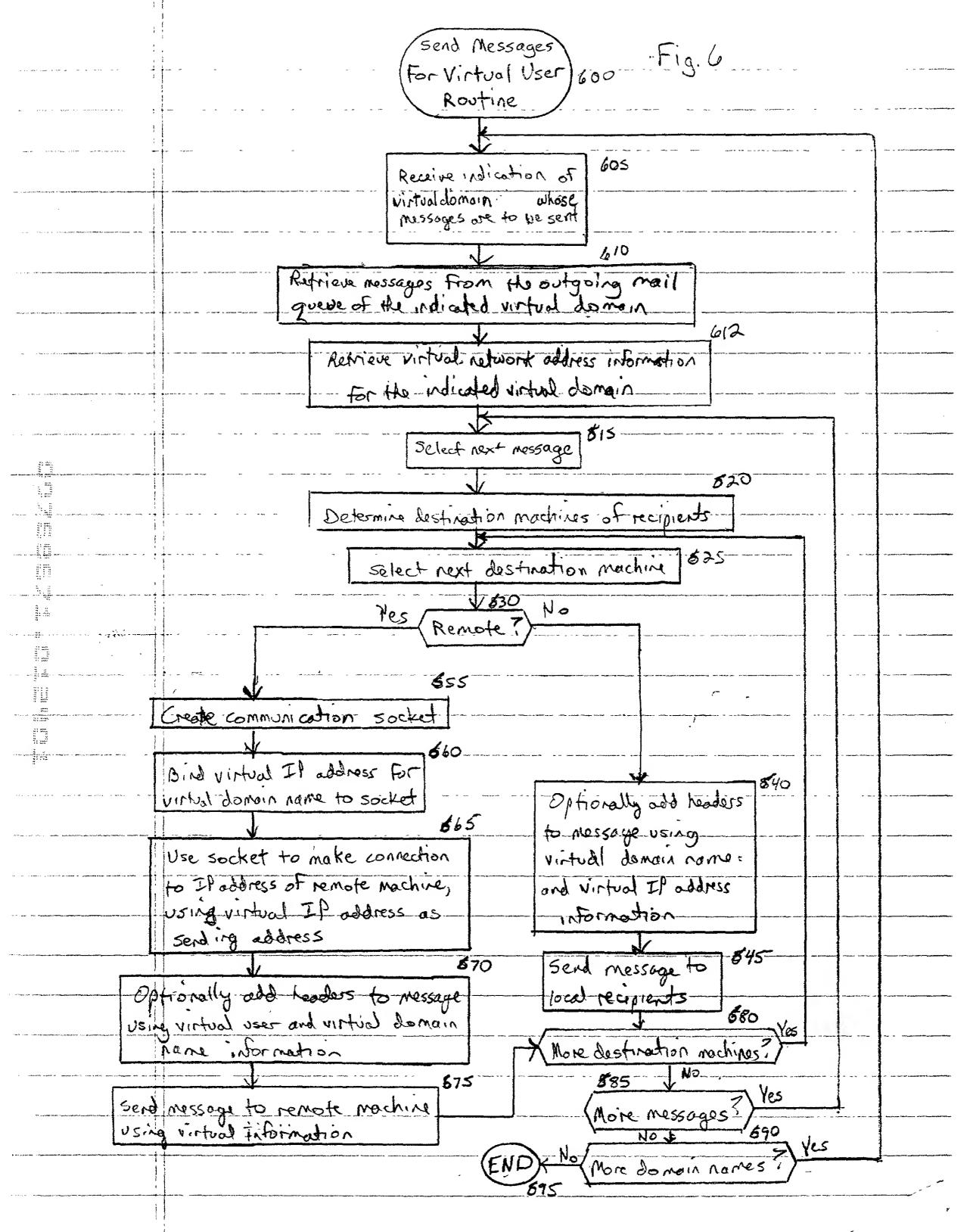
>>> QUIT

221 xyz.com closing connection

## Figure 3B







Contracting the Application